

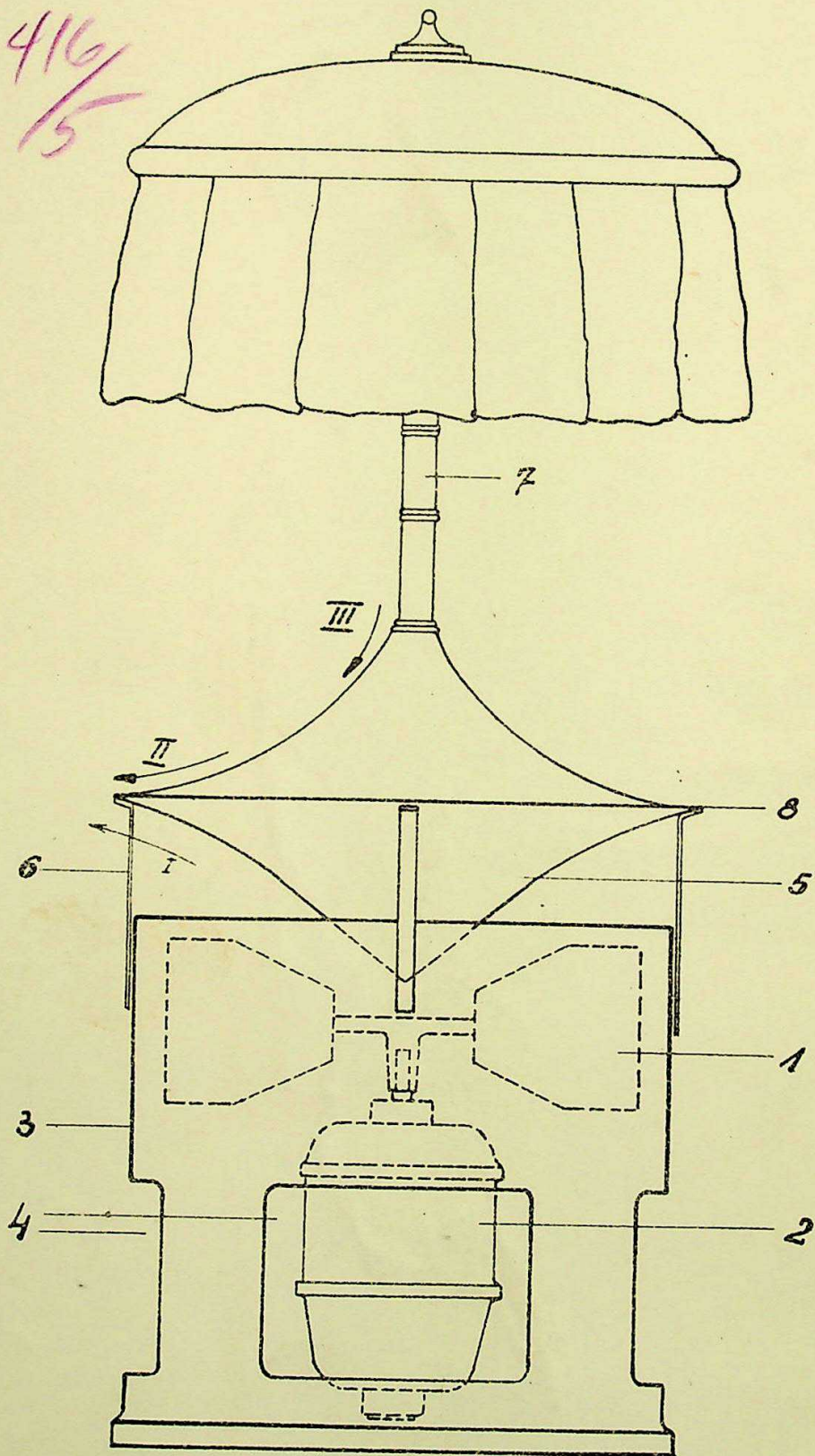
~~230~~
~~244.5~~

243,327 COMPLETE SPECIFICATION

1 SHEET

416/
5

[This Drawing is a reproduction of the Original on a reduced scale.]



2432
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243,327

PATENT SPECIFICATION



Convention Date (Germany) : Nov. 24, 1924.

243,327

Application Date (in United Kingdom) : Oct. 30, 1925. No. 27,317 / 25.

Complete Accepted : April 8, 1926.

COMPLETE SPECIFICATION.

Improvements in and connected with Standing Lamps.

We, the firm of THEODOR FRÖHLICH, an Offene Handelsgesellschaft, organised under German law, of 35, Dorotheenstrasse, Berlin, N.W. 7, Germany, do hereby declare the nature of this invention and in what manner the same is to be performed, to be particularly described and ascertained in and by the following statement:—

10 This invention has for its object to provide a portable standing lamp, the base of which encloses a fan. The fan device and lamp forms an arrangement which takes up but little room and serves the double purpose of providing light and ventilation and, given a suitable design of fan and regulator is attended with further special advantages as hereinafter described.

20 The fan is preferably arranged with a deflector mounted above the rotor (which is enclosed in a casing) so as to divert into a horizontal direction the air current which is guided axially in relation to the rotor by the casing, and diffuses the said current, thereby preventing disturbing draughts. The deflector may be bi-conical that is in the form of two cones with bases adjacent (or other like devices may be used) arranged co-axially with the fan rotor, so that the ventilating air current, passing over the edge at the junction of the bases of the two cones, draws in a second air current in a direction opposite to the ventilating air current, this second current also being diverted into the horizontal direction by the shape of the upper cone surface and combining with the ventilating current at the junction of the two cones. This arrangement affords the advantage that midges, flies and the like, which are

attracted by the light are carried away by the air currents, or combined air current.

The accompanying drawing illustrates, by way of example, a portable standing lamp made according to this invention, but the invention is not limited thereto.

1 is the fan rotor, which is driven by any suitable means such as electromotor 2. The rotor is surrounded by a casing 3, provided with openings 4 through which the air is drawn in, the said casing guiding the current of air, generated by the fan, in the axial direction of the said rotor. Above the casing is arranged a deflector 5, which may be in the shape of two cones with inwardly curved surfaces and their bases adjacent, supported by stays 6 attached to the casing 3 and, if desired, adapted to be adjusted vertically. The said deflector supports the lamp proper 7, the filament of which (not shown in the drawing) can be supplied with current through a conductor branching from the current lead to the motor and passed through the device.

The current of air drawn in by the fan and flowing along and diffused in the direction of the arrow I by the lower surface of the deflector 5, draws in a second air current in the direction of the arrows II and III on passing the edge 8 formed by the junction of the double cone, which current unites with the current from the fan.

Having now particularly described and ascertained the nature of our said invention and in what manner the same is to be performed, we declare that what we claim is:—

1. A portable standing lamp, characterised in that the base encloses a fan.

2. A portable standing lamp as claimed
in Claim 1, characterised in that the fan
rotor is rotated within an axially
arranged casing open at the ends above
5 which casing is arranged, also equi-
axially, a deflector of bi-conical form.

3. A portable standing lamp combined
with a fan and an adjustable deflector

substantially as hereinbefore describ-
ed and shewn in the accompanying draw-
ings.

Dated this 30th day of October, 1923.

JOHNSONS & WILLCOX,
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W.C. 2,
Agents.

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